performing epitaxy to form raised source/drain regions;

forming a silicide on the gate and source/drain regions;

removing the spacer, thereby forming a void region between the source/drain regions and the gate,

performing a halo implant through the void, thereby forming a halo around the gate in the channel region; and

completing the MOSFET.

## 5. (AMENDED) A method of making a MOSFET, comprising:

providing a substrate having a gate oxide and gate thereon, the gate defining a channel region of no more than 50 nm length;

performing a vertical source/drain extension ion implant to a depth of approximately 10 nm to approximately 30 nm;

forming a spacer on the gate;

forming raised source drain regions;

forming a silicide on the gate and source/drain regions;

removing the spacer, thereby forming a void region through the silicide between the source/drain regions and the gate;

performing a halo implant through the void, thereby forming a halo around the gate in the channel region; and

completing the MOSFET.

## 10. (AMENDED) A method of making a MOSFET, comprising:

providing a substrate having a gate oxide and gate thereon, the gate defining a channel region of no more than 50 nm;

performing an approximately vertical source/drain extension ion implant to a depth of approximately 10 nm to approximately 30 nm;

forming a nitride spacer on the gate;

performing epitaxy to form raised source/drain regions;

forming a silicide on the gate and source/drain regions;

removing the spacer, thereby forming a void region through the silicide between the source/drain regions and the gate;

2

Br

BI

Sul